



December 11, 2012

## Photo Release -- Anaren, Inc. Introduces New AIR Module Family for ZigBee(R) Standard and New BoosterPack Kit to Help Engineers Develop ZigBee Wireless Applications Using Texas Instruments MSP430(TM) and Stellaris(R) LaunchPad Development Kits

### New Anaren Integrated Radio (AIR(TM)) Modules (A2530x24xxx) Simplify Wireless Implementations for ZigBee Standard Applications -- Thanks to Unique Combination of AIR-ZNP Firmware, Pre-Certification, Development Tools, and Other Extras Included With the Company's AIR Support for ZigBee Solution

SYRACUSE, N.Y., Dec. 11, 2012 (GLOBE NEWSWIRE) -- Anaren, Inc. (Nasdaq:ANEN) announced today that it has introduced a family of four Anaren Integrated Radio (AIR™) modules designed specifically to help OEMs develop products that wirelessly communicate in compliance with the ZigBee® standard. Based on the Texas Instruments Incorporated (TI) [CC2530](#) low-power RF SoC (which operates using TI's [Z-Stack™](#) firmware), the new family of AIR modules is bundled with *AIR Support for ZigBee* — a total solution that includes time-saving AIR-ZNP firmware (including 30+ code examples), pre-certification to applicable global, regulatory standards, and development tools like the Company's new BoosterPack for TI MSP430™ and Stellaris® LaunchPad development kits. A member of the ZigBee Alliance, Anaren unveiled the beta of its AIR module for ZigBee at the 2012 Consumer Electronics Show (CES).

Photos accompanying this release are available at

<http://www.globenewswire.com/newsroom/prs/?pkgid=16152>

<http://www.globenewswire.com/newsroom/prs/?pkgid=16153>

"Not everyone seeking to comply with the ZigBee standard is prepared for the programming and RF complexities involved with this exciting wireless protocol," says Anaren Business Development Manager, Mark Bowyer. "With our new AIR modules -- and with the many value-added elements of *AIR Support for ZigBee* solution that surrounds these modules -- Anaren offers OEMs heading down the ZigBee path a clearer, more streamlined, and more cost-effective approach."

"TI is pleased to see Anaren add a ZigBee module and BoosterPack based on the CC2530 to the family of AIR products for TI LaunchPad development kits," said Volker Prueller, marketing director, Wireless Connectivity, TI. "With the Anaren ZigBee family, manufacturers can now more easily develop ZigBee-enabled MSP430 or Stellaris microcontroller- (MCU-) based systems, including those for ZigBee Light Link."

Features and benefits of Anaren's new AIR module family for ZigBee standard applications (part number A2530x24xxx) include the following:

#### **Anaren AIR modules for ZigBee standard applications (part no. A2530x24xxx)**

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##### **General:**

- > Minimal RF engineering and ZigBee experience necessary
- > Easy to program, for shortened design cycle
- > Choice of integral or connectorized antenna
- > Pre-certified to FCC/IC, compliant with ETSI
- > Choice of range-extender or non-range extender modules
- > Tiny, standardized footprint: 11 x 19 x 2.5mm
- > 2.4-GHz IEEE 802.15.4 compliant RF transceiver (TI's CC2530)
- > Excellent receiver sensitivity and robustness to interference (-95dBm average)
- > Wide input voltage range (2.2V — 3.6V)
- > 100% RF tested in production
- > Module weight approximately 0.7 grams
- > Low current Consumption: ( $T_C = 25^\circ\text{C}$ ,  $V_{DD} = 3.0\text{V}$ )
  - active mode RX (CPU Idle): 28mA
  - active mode TX (CPU Idle): 68mA @1dBm, 78mA @8dBm (limit for ETSI compliance), 130mA @ 15dBm (limit for FCC/IC compliance)
- > Three low power/sleep modes from 1uA to 200uA

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##### **Microcontroller:**

- > High-performance and low-power 8051 MCU core with code prefetch

> 256KB in-system programmable flash and 8KB RAM with retention in all power modes

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**Firmware:**

- > Preloaded with Anaren's AIR-ZNP firmware, based on the TI Z-Stack for the ZigBee standard (developed in cooperation with [Tesla Controls](#))
  - > Supports SPI and UART communication
  - > Driver library included for MSP430 and Stellaris MCUs, which abstracts functionality
  - > Over 30 code examples for a paired MCU included to demonstrate functionality
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Complete product briefs for the above modules may be found at Anaren's [website](#).

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In concert with the launch of its new AIR module family for ZigBee standard applications, Anaren has also introduced a new BoosterPack featuring its new family of modules. The new CC2530 BoosterPack Kit (part number A2530E24A-LPZ) helps OEM engineers develop wireless applications using a TI LaunchPad for MSP430 or Stellaris MCUs. Key attributes of this new BoosterPack include the following:

**Anaren CC2530 BoosterPack for ZigBee standard applications (part no. A2530E24A-LPZ)**

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**General benefits:**

- > Provides "out of the box" wireless connectivity for easier development of applications based on the ZigBee standard
  - > Includes AIR-ZNP firmware solution (based on TI's Z-Stack), which compresses time to market by greatly reducing the learning curve and development time
  - > Provides an excellent learning/development tool for all levels of ZigBee expertise — as well as a clear, easy-to-understand migration path from development to production
  - > Part of *AIR Support for ZigBee*, a total solution from Anaren that includes development tools, free firmware and applications support, and more
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**Kit contents:**

- > Includes three A2530E24A AIR Module BoosterPacks, for connection to TI's MSP430 or Stellaris LaunchPad development kit (LaunchPad not included)
  - > Each BoosterPack includes an on-board MSP430G2553IN20 Value Line MCU, pre-flashed with Anaren's AIR-ZNP firmware (based on TI's Z-Stack for the ZigBee standard)
  - > For Stellaris operation, simply remove the MSP430 MCUs, and load the Stellaris firmware via USB from the included CD
  - > CD contains all the software, MSP430 and Stellaris drivers, application notes, quick start guide, and more to get started
  - > Includes one 2xAA battery holder for remote
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A complete product brief for the kit can be found at Anaren's [website](#).

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E-OEM design engineers interested in learning more or securing applications assistance are encouraged to contact Anaren or any authorized AIR module distributor (see the Anaren website for a current listing).

**ABOUT ANAREN:** An innovative leader in microwave and RF technology, Anaren designs and manufactures complex components and subsystems for the consumer electronics, wireless infrastructure, defense, and satellite markets. To learn more, visit [www.anaren.com](http://www.anaren.com)

The Anaren, Inc. logo is available at <http://www.globenewswire.com/newsroom/prs/?pkgid=5360>

**ABOUT TESLA CONTROLS:** Tesla Controls provides wireless products and consulting services to a variety of customers in the industrial, medical, and government markets. Tesla was founded by Derek Smith, who also co-founded the ZigBee pioneer Awarepoint. [www.TeslaControls.com](http://www.TeslaControls.com)

\* *ZigBee, ZigBee Alliance* are registered trademarks of ZigBee. More information about the ZigBee standard may be found at the organization's [website](#).

Photos accompanying this release are also available at Newscom, [www.newscom.com](http://www.newscom.com), and via AP PhotoExpress.

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